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ABSTRACT

This first grade environmental education guide is one of a series of quides, K-12, which were developed by teachers to help introduce environmental education into the total curriculum. The quides are supplementary in design; it is the teacher's decision when the concepts, objectives, activities, and resou. Is may best be integrated into the existing classroom curriculum This guide contains a series of 12 episodes (minilessons), each having a number of suggested in- and out-of-class learning activities. The episodes are built around 12 major environmental concepts that form a framework for each grade or subject area, as well as for the entire K-72 program. Although the same concepts are used throughout the K-12 program, emphasis is placed on different aspects of each concept at different grade levels. The first grade guide focuses on aspects such as planets and seasons, living and nonliving organisms, overpopulation, water uses, and animal adaptation. Each of the 12 concepts is covered in one of the episodes contained in the guide. Further, each episode offers subject area integration, subject area activities, interdisciplinary activities, cognitige and affective behavioral objectives, and suggested references and resource materials useful to teachers and students. (Author/TK)



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SICINATIONS.

Robert J. Warpinski Project I-C-E

ERIC Full Text Provided by ERIC

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Serving All Schools in Cooperative Educational Service Agencies 3-8-9 Wisconsin Area "B" Regional Project

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REST CORT HAILABLE 1. C.

In 1969, the First En ironmental Quality Education Act was proposed in the United States Congress. At the time of the introduction of that legislation, I stated:

"There is a dire need to improve the understanding by Americans of the ominous deterioration of the Nation's environment and the increasing threat of irreversible ecological catastrophe. We must all become stewards for the preservation of life on our resourcedeficient planet."

brought the question of the envi-ronmental quality of this nation continuing degradation of our air and water, and the discussion over against pollution have all quate energy resources, the to a concern not merely of aesthe-Environmental Education Act was human race. tics but of the survival of the the economic costs of the war The intensive concern over adefective environmental education reinforce the great need for efhappened in the United States to for the Nation's young people. passed by the Congress, much has In the three years since the

The intense interest by the public in the quality of our lives

as affected by the environment clearly indicates that we cannot just use incentives and prescriptions to industry and other sources of pollution. That is necessary, but not sufficient."

The race between education and catastrophe can be won by education if we marshall our resources in a systematic manner and squarely confront the long-term approach to saving our environment through the process of education.

As the incessant conqueror of nature, we must reexamine our place and role. Our world is no longer an endless frontier. We constantly are feeling the backlash from many of our ill-conceived efforts to achieve progress.

Rachel Carson's theme of "reverence for life" is becoming less mystical and of more substance as our eyes are opened to much of the havoc we have wrought under the guise of progress. A strong commitment to an allembracing program of environmental education will help us to find that new working definition of progress that is a pre-requisite to the continued presence of life on this planet.

Senator Gaylord Nelson

ACKNOWL EDGEMENT

Project I-C-E Environmental Education K-12 series: The interest and dedicated effort of the following teachers from Wisconsin Area "B" has led to the development of the

Bill Cole, Gillett William Bohne, Kimberly Merlyn Blonde, Shawano Carmella Blecha, Green Bay Ken Couillard, Hortonville Konald Conradt, Shiocton Willard Collins, Crivitz Merle Colburn, Algoma Kathryn Colburn, Algoma Bob Church, Little Chute Clifford Christensen, Winneconne Gailen Braun, Lena Barbara Jean Bobrowitz, Green Bay Marie Below, Clintonville William Behring, Lourdes, Oshkosh Robert Becker, Fox Valley Luth., Appl. Bonnie Beamer, Coleman David Bartz, Sturgeon Bay Anthony Balistreri, Howard-Suamico William Baggs, Shiocton Angela Anthony, Gibraltar Walter Anderson, Wausaukee Peggy Anderson, Green Bay John Anderson, Peshtigo Joan Alioto, Demmark Lee Clasen, Luxemburg-Casco Joan Charnetski, Sevastopol Peter Biolo, W. DePere Laura Berken, Oconto Falls Lillian Berges, Seymour Lousene Benter, Gillett David Bell, Neenah Lowell Baltz, Weyauwega Dr. darold Baeten, St. Norbert, DePere James Anderson, Green Bay Eugene Anderson, Peshtigo Mary Anders, Winneconne D. C. Aderhold, Bonduel

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PREFACE

PRIMARY TEACHERS!

Here's what you've been looking for!! Lessons & Activities in all capacities

to INTEGRATE

With ALL subjects.

NO extra planning.

NO extra lessons.

Use daily, whenever, wherever,

the opportunity arises.

Slant this year's teaching

toward ECOLOGY!

Help your class become

AWARE

of their WORLD.

We will need their HELP in PRESERVING it:



DIRECTIONS FOR USING THIS GUIDE

This guide contains a series of episodes (mini-lesson plans), each containing a number of suggested in and out of class learning activities. The episodes are built around 12 major environmental concepts that form a framework for each grade or subject area, as well as for the entire K-12 program. Further, each episode offers subject area integration, multi-cable, both cognitive and affective behavioral objectives and suggested reference and resource materials useful to the teacher and students.

- in design--it is not a complete course of study, nor is its arrangement sequential. You can teach environmentally within the context of your course of study or units by integrating the many ideas and activities suggested.
- 2. The suggested learning activities are departures from regular text or curriculum programs, while providing for skill development.

- objectives, activities and resources can conveniently be included in your unit.
- 4. All episodes can be adapted, modified, or expanded thereby providing great flexibility for any teaching situation.
- area has its own topic or unit emphasis, inter-grade coordination or subject area articulation to avoid duplication and overlap is highly recommended for any school or district seeking effective implementation.

This total K-12 environmental education series is the product of 235 classroom teachers from Northeastern Wisconsin. They created, used, revised and edited these guides over a period of four years. To this first step in the 1,000 mile journey of human survival, we invite you to take the second step--by using this guide and by adding your own inspirations along the way.

PROJECT I-C-E TWELVE MAJOR ENVIRONMENTAL CONCEPTS

- 1. The sun is the basic source of energy on earth. Trans-formation of sun energy to other energy forms (often begun by plant photosynthesis) provides food, fuel and power for life systems and machines.
- All living organisms interact among themselves and their environment, forming an intricate unit called an ecosystem.
- 3. Environmental factors are limiting on the numbers of organisms living within their influence. Thus, each ecosystem has a carrying capacity.
- 4. An adequate supply of clean water is essential to life.
- An adequate supply of clean air is essential for life.
- 6. The distribution of natural resources and the interaction of physical environmental factors greatly affect the quality of life.

- 7. Factors such as facilitating transportation, economic conditions, population growth and increased leisure time influence changes in land use and population densities.
- 8. Cultural, economic, social, and political factors deternine man's values and attitudes toward his environment.
- 9. Man has the ability to manage, manipulate and change his environment.
- 10. Short-term economic gains may produce long-term environmental losses.
- 11. Individual acts, duplicated
 or compounded, produce sig nificant environmental
 alterations over time.
- 12. Each person must exercise stewardship of the earth for the benefit of mankind.

A "Concept Rationale" booklet and a slide/tape program "Man Needs His Environment" are available from the I-C-E RMC to more fully explain these concepts.

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PROJECT

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(Continued)

Publications

Books:

N. Y. 1961 Goudey, Alice C Schribner, Sons, Franklyn M. Branley, Crowell Co.,1961 The Day We Saw the Sun Come Up, Cooper, Blackwood, & Hone Nina Schneider Science for Work and Play, Herman & Concepts in Science, Brandwein, The Sun, Our Nearest Star,

Audio-Visual

Sun Up (Weston Woods Story Films)
The Sun's Family Planting Our Garden, color, 11 min. Coronet, BAVI 0515 \$4.00 Seasons by Instructo Flannel Board Filmstrips: Food From the Sun, color, 10 min. (EBF) - BAVI 6742 \$4.75

Community:

CONTINUED OR ADDED LEARNING ACTIVITIES

CLASSROOM (Continued)

. Cover one of the jars. After a few days ask the child-ren questions about: What happened to the water in the Experiment uncovered jar? Use the term evaporation. Put 2 jars with an equal amount of water in the sun.



- . m Discuss how eating fruit gives us energy from the sun.

 1. How does eating fruit give us energy?

 2. Does this energy come from the sun?
- How do you know if it does or doesn't?
- Place hand in direct sunlight and another in shade. Compare difference in temperature.
- j. Sun's rays create change. Place colored paper in sullight. (will fade.) What happens when you're out in sun. (Sunburn.)

Art

- Draw seasonal picture with heavy crayon; use wash appropriate white - winter for season. Example:
- yellow summer orange - fall blue - spring
- **B** Paper doll figures or flannel board. Dress with different clothes on rainy, sunny, and cold days. What different activities do you do when weather changes.

(Continued)

		Publications:	SUGGESTED RESOURCES	
D. Pin leaves to construction paper or hold down with small rocks, and place in bright sunlight. Let leaves remain in sun for an hour or longer. Remove leaves and find outlines on the paper. This is a very simple project to use in the concept introduced in Activity 7.	II. C. Weather calendar: keep track of the weather for the month. Enumerate days of similar weather.	CLASSROOM (Continued)	CONTINUED OR ADDED LEARNING ACTIVITIES	

Audio-Visual:

i,

Community:

CONTINUED OR ADDED LEARNING ACTIVITIES

Publications:

Fable - "Sun and the Wind"
"Who Has Seen the Wind", by Rosetti
"The Wind", by R. L. Stevenson
Canticle of the Sun by St. Francis

Audio-Visual:

Community:



CONCEPT NO. - Energy SUBJECT Math and Science CORIUNTATION What Are Shadows? TOPIC/UNIT Weasure shadows of biglects at various The shadows of biglects at various The shadows of biglects at various The chief of the day according to:		Environmental:	Integrated with:	
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Affective: Demonstrate awareness of way shadows are made, explaining how, describing and demonstrating a range of shadow darkness to others in the class or to his parents. Skills Used: 1. Telling time 2. Observation 3. Discussion 4. Comparison 5. Measuring 5. Measuring Demonstrate awareness of way shadow are not be sufficient to develop them. a slide projector, flash-line, as well as the sun the length of each of the sum that a strick. Shadow with a strick measure each one. We all be the same numb inches or feet? Why c. Take a large sheet oping paper outside, it on the sidewalk sum that around it. Now cut around it. Now cut the sum that same numb inches or feet? Why c. Take a large sheet oping paper outside. It shows that it is your shadow falls on the sidewalk sum the sum the sum the length of each candum, a straight line. Skills Used: 1. Telling time 2. Observation 3. Discussion 4. Comparison 5. Measuring 4. Comparison 5. Measuring 6. Have several childre the sum the length of each candum, as well as the sun the length of each candum, as well as the sun the length of each candum, as well as the sun the length of each candum, as well as the sun the sum the length of each candum, as well as the sun the length of each candum, as well as the sun the sum the length of each candum, as well as the sun the length of each candum, the length of each candom picture as well as the sun the sum the length of each candom picture was being a slide of the sum the sum the length of each candom picture was being a slide of the sum the sum the length of each candom picture as well as the sum the length of each candom picture as well as the sum the length of each candom picture as well as the sum the length of each candom picture as well as the sum the length of each candom picture as well as the sum the length of each candom picture as the sum the length of each candom picture as the sum the length of each candom picture as the sum the length	OJE	position and size of the shadows.		shadow at noon?
Demonstrate awareness of way shadows are made, explaining how, describing and demonstrating a range of shadow darkness to others in the class or to his parents. Skills Used: 1. Telling time 2. Observation 3. Discussion 4. Comparison 5. Measuring 5. Measuring 5. Measuring 6. Take all allowed by them. In a straight line, the length of each to develop them. In a straight line, the length of each to develop them. In a straight line, the length of each to develop them. In develop the develop them. In develo	PR	Affective:	a slide projector, flash-	Have several
shadows are made, explaining now, describing and demonstrating a range of shadow darkness to others in the class or to his parents. Kills Used: 1. Telling time 2. Observation 3. Discussion 4. Comparison 4. Comparison 5. Measuring 5. Measuring 5. Measuring 6. Advertop them. 1. It is provided in the same number of th		rate awareness of way	as well as	in a straight
range of shadow darkness to others in the class or to his parents. Rills Used: 1. Telling time 2. Observation 3. Discussion 4. Comparison 5. Measuring The parents of the class or to his all be the same numb inches or feet? Why cut are? Is it shorter than the sidewalk show are? Is it shorter than the shadow file that a syou are? Is it shorter than the shadow pic	111	are made, explaining ing and demonstrating	lop the	the length of each child's shadow with a stick. Now
others in the class or to his parents. C. Take a large shet o ping paper outside. it on the sidewalk s your shadow falls on Have another child t around it. Now cut around show pic 1. Telling time 2. Observation 3. Discussion 4. Comparison 5. Measuring Measure to find ou ping paper outside. it on the sidewalk s your shadow falls on Have another child t around it. Now cut around it. Syou are? Is it shorter than Use mathematical t Use mathematical t Where was the sun picture was being	'itle	range of shadow darkness to		measure each one. Will they
Skills Used: Skills Used: 1. Telling time 2. Observation 3. Discussion 4. Comparison 5. Measuring C. Take a large sheet oping paper outside, it on the sidewalk syour shadow falls on Have another child the around it. Now cut around it. Now cut Is you refall as you are? Is it shorter than Measure to find outside the shorter, longer, Use mathematical the sun picture was being picture was being picture was being 13	<u>4. 1</u>	n the class or to		
skills Used: 1. Telling time 2. Observation 3. Discussion 4. Comparison 5. Measuring Where was the sun picture was being ping paper outside. it on the sidewalk s your shadow falls on Have another child t around it. Now cut Is your shadow pic tall as you are? Is it shorter than Measure to find ou (shorter, longer, Use mathematical than the sun picture was being 13	E . (•		Take a
your shadow falls on Have another child t around it. Now cut Is your shadow pic I Telling time 2. Observation 3. Discussion 4. Comparison 5. Measuring your shadow pic I sour shadow pic tall as you are? Is it shorter than (shorter to find ou (shorter, longer, Use mathematical t Where was the sun picture was being .13	S.		-	ping paper outside. Flace it on the sidewalk so that
Used: Telling time Is your shadow pic learn tall as you are? Observation Discussion Comparison Measuring	Ε.			your shadow falls on it.
Telling time Telling time To be tall as you are? It it shorter than the sure to find out to the sure to the sun to				around it. Now cut it out.
Observation Is it shorter than Discussion Comparison Weasuring Where was the sun picture was being .13				Is your shadow picture as
Discussion Measure to find ou (shorter, longer, longer, longer) We mathematical to the sun picture was being .13		Observat		Is it shorter than you are?
Comparison Shorter, longer,				Measure to find out.
Where was the sun picture was being .13				(shorter, longer, etc.)
picture was being drawn? 13 (Cont'd. Cont'd.	_			Where was the sun when your
				picture was being drawn?
ER				
				ER

Publications:

Books: Shadows

What Makes a Shadow?

Describing and classifying Measurement Unit 4 Using Our Senses Braydon, Lillian, Tell Me the Time, Please, Philadelphia, Lippincott, 46 Francoise, What Time Is It Jean Marie? N. Y. Schribner, 1963

Audio-Visual:

Movie, Time for Clocks (color) \$4.00 BAVI 10 min.

Community:

CONTINUED OR ADDED LEARNING ACTIVITIES

OUTSIDE ACTIVITIES (Continued)

I. Math

Can you recognize your own shadow? Your friend's? Have children indicate tallest, shortest, etc. (again use mathematical terms)



Integrated with:

CONCEPT NO. 2 - Ecosystem

SUBJECT Science

ORIENTATION _

59-70-0135-4

What Are Living Things?

TOPIC/UNIT Living and Non-living Things

E. S. E. A. Title III - PROJECT I-C-E

Publications:

Books:

Soon After September: The Story of Living Things, McGraw-Hill

Co., New York
Howell, Ruth, A Crack in the Pavement, N. Y. 1970

Audio-Visual:

NEWIST television science series (2nd semester)

Community:

Nature Trail

CONTINUED OR ADDED LEARNING ACTIVITIES

CLASSROOM (Continued)

Living Things

Fish Snake People

Perhaps you could show a slow-motion film to illustrate the opening of a flower blossom.



×	E. S. E. A. Title III - PROJECT I-C-E 59-70-0135	\top	BE	<u> </u>	<u></u>	
Skills Used: 1. Listening for information 2. Writing an informational article	Make a three-part diagram to show interaction between plants and animals. Describe the interaction between living and non-living things. Affective: Select other examples of animals and determine how they interact with their environment while out of the school setting.		BEHAVIORAL OBJECTIVES	ORIENTATION What Do Living Things	CONCEPT NO. 2 - Ecosystem	Environmental:
C. Recall nature walk & lists of living & non-living things.	Make a picture ing. Choose may lives to show all res and an expersional result on the result of the shand wax it. Example: car is used for ash and wax it. Example: car car is used for the live put air of the checkup. Checkup. Checkup.	in-Class:	STUDENT-CENTERED LEAR	ngs Need? TOPIC/UNIT Living	SUBJECT Scien	Integrated with:
		Outside or Community:	LEARNING ACTIVITIES	ng and Non-living Interaction	Science and Language Arts	

(Continued)

Publications:

Books:

Puddles and Ponds
Busch, Phyllis S., World Pub. Co.
N. Y., 1969

Birds 130 In ICE BookTet of poems and pictures

Audio-Visual:

Discovering Your Environment KT 26 I-C-E

CONTINUED OR ADDED LEARNING ACTIVITIES

CLASSROOM (Continued)

- I. \star If nature walk from previous lesson has not been taken, it would be appropriate to take one now.
- D. Discuss why animals live in particular areas. (alligator, bear, raccoon, duck).
- E. On board put following examples:



Discuss interdependence shown. Children should make a diagram (use pictures instead of words) with their own examples.



		Publications:	SUGGESTED RESOURCES	
G. Zoo Each child will create one animal family and cage by cutting and pasting. Use thin strips for bars.	I. F. Mobile Animal faces created with cut construction paper on paper plateboth sides. Hang with string. Stress having things protrude from face. Curling, folding, tabs, cones and cylinders could be demonstrated.	CLASSROOM (Continued)	CONTINUED OR ADDED LEARNING ACTIVITIES	

Audio-Visual:

Environmental Awareness ICE Kit 16 "Colors in Nature"
"Textures in Nature"
"Patterns in Nature"

Community:

ERIC Full faxt Provided by ERIC

ORIENTATION CONCEPT NO. What Does Carrying Capacity Mean? 3 - Carrying Capacity SUBJECT Social Studies and Physical Education TOPIC/UNIT Overpopulation

_		E. :	S. E. A.	Title	III <i>-</i>	PRO	DJECT	I-C-E	59-70	013	5-4	1
	Skills Used: 1. Counting 2. Recording		amcunt.	that can be provided for under a set of conditions and that it is unwise to exceed this number	here is a	Affective:			Demonstrate a procedure that will show that each set of conditions has its own carrying capacity.	arr	Cognitive:	BEHAVIORAL OBJECTIVES
							Discuss problems that will arise when overpopulation occurs.	s, etc. A from catal	A. Bulletin board "The City and Overpopulation". Make skyscrapers, homes, stores,	I. Social Studies	In-Class:	STUDENT-CENTERED LEARNING ACTIVITIES
(Continued) 21	carrying capacity is important. (elevator, car, small room, etc.) Find out what each of these places will hold. Count and record the number of people in each area.		b. Too many hunters c. Too few animals	is of		they play dead. Variations:	disperses when hunter yells "Bang." Hunter tags deer and	come deer. Sing "A Hunting We Will Go, A Hunting We Will Go, Heigh-o: the Derry-oh: A	file. become behind	I. Physical Education "A Hunting We Will Go" Child-	Outside or Community:	VRNING ACTIVITIES

Audio-Visual:			Publications:	SUGGESTED RESOURCES	
B. Compare children's experiences of overcrowding with nature when there are too many fish, some die; when there are too many frogs, some move out.	We call the number of people an area holds the carrying capacity. (Use term "carrying capacity" in further discussions).	 A. Find out how many people your school bus will hold. What happens if the bus is overcrowded? What nappens when too many children are using the playground at the same time? How many people does our playground hold? What happens when too many children want to swim at the same time? How many people does a beach hold? 	OUTSIDE ACTIVITIES (Continued)	CONTINUED OR ADDED LEARNING ACTIVITIES	



	E. S. E. A. Title III - PRO	DJECT I-C-E	<u>59-70-0135</u>	-4			
Skills Used: 1. Quick body movement to develop eye-hand-feet coordination.	Affective: Continue to explore types of spaces on his own and locate and describe these that: a. Make him feel comfortable. b. Uncomfortable. c. Scared. d. Joyful.		Play the game of Dodge Ball under given conditions that limit his performance and demonstrate type of adaption needed to participate	BEHAVIORAL OBJECTIVES	ORIENTATION Limits are set on the organisms in a place.	CONCEPT NO. 3 - Carrying Capacity	Environmental:
ine:	ball, the pep away and dod and dod circle circle rowing to avoid to avoid and langers keep of "tage"	ask why. cation cation explain tha pxplain ga he game is	I. Social Studies A. Take all the children into la small room which will be over-lack them how they feel in this lack them how they feel in this	STUDENT-CENTERED	number of TOPIC/UNIT Dodge	SUBJECT	Integrated with:
23		space makes them feel and why.	1. Social Studies A. Take the children to a large room. a dining hall, gymnasium, church, etc. After a while ask how this	l Outside or Community:	Ball	Physical Education and Social Studies	

Nicks, Mei, Curriculum for Elementary Physical Education, Diocesan Dept. of Education, Green Bay, Wisconsin SUGGESTED RESOURCES **Publications** Audio-Visual: CLASSROOM (Continued) II. Physical Education CONTINUED OR ADDED LEARNING ACTIVITIES ? D. Continue discussion after this fashion: Vary the grouping after each game: - boys be dodgers Startle them by asking everyone to join the circle of taggers. Then ask them to go ahead and play the game again. Is it possible? Why not? - How did you feel as more and more people had to join the circle formation? Did you have more space for moving at the beginning of a new game or near the end - How did you feel when the largest group was inside - How did you feel when the smallest group was inside those wearing red those wearing blue those wearing yellow those wearing brown the circle? girls be dodgers the circle? when nearly everyone was tagged out?

Community:

			E. S. E.	Α.	Title III		PRO	OJEC.	T I-C-E	59-70-01	35-4	4		
c. dodging	O O	Skills Used:	of nature b. destroy the balance of nature	a. help keep the balance	influence on the balance of nature by presenting examples that he has seen that:	Demonstrate awareness of man's	Affective:			Orally give examples of effects of both wildlife imbalance and man on the environment in terms of food available.	Cognitive:	BEHAVIORAL OBJECTIVES	ORIENTATION How Does Man Affect Nature?	CONCEPT NO. 3 - Carrying Capacity
(Continued)	 Modify game by creat- ing an imbalance in numbers and discuss effects. 	lmais.	animal, thus having elimin- ated one or more of a cer- tain species. The new chaser or chasers then all call on another group of an-	chaser becom	end of gym or playground. Chaser tries to tag them. Any player caught takes the l part of chaser. The orig-	are deer r	any animal he chooses. Ex. "deer!" All players	cal		I. Physical Education A. The Formation: 2 lines - 20', 40', or 50' apart. Players on one line, chaser in the center.	In-Class: 0	STUDENT-CENTERED LEARNING	the Balance of TOPIC/UNIT Balance of	ty SUBJECT Physical
25											Outside or Community:	ACTIVITIES	f Nature	Education

Environmental:

Integrated with:

SUGGESTED RESOURCES CLASSROOM (Continued) CONTINUED OR ADDED LEARNING ACTIVITIES

Publications:

I. Physical Education

The following games can be used to show carrying capacity - for first graders. eg. for the game sug-gested. It can be discussed in relation to hunter's quotas - when there are too many hunters the species is endangered.

Hunter

the name of an animal. The players who have chosen that animal fall in line behind the "Hunter". When the "Hunter" has called four animals, he then calls, "Let's all go hunting." Rest of players fall in line. The One person is the "Hunter". The rest of players stand in a straight line. Each player chooses the name of a wild animal. The "Hunter" starts walking and calls "Hunter" suddenly shouts "Bang!" and all players attempt to get back to the starting line without being tagged. All those tagged are "shot" and are out of the game until "Hunter" has had three turns.

Audio-Visual:

"Animal Predators and the 3alance of Nature", BAVI, 11 min., color

Community:

Integrated with:

SUBJECT

Science, and Social Studies

How Do We Use Water?

4 - Water

TOPIC/UNIT Water Uses

BEHAVIORAL OBJECTIVES In-Class: Science STUDENT-CENTERED LEARNING ACTIVITIES I. Social Studies

Draw three pictures of water

59-70-0135

- sortment of maps. water on globes, and on an as-A. Show pictures of the many rīver). is found (ocean, lake, pond, places in the world where water Point out bodies of
- Give each child world map and U. S. map.
- Color water blue and land green.
- is so much water in the world? Ask: Why do you think there
- water; eg., frogs, birds, fish, deer, and snakes. ferent ways in which animals use Discuss and illustrate dif-

S. E. A.

and well-being

for pleasure

for aesthetic values

his own physical needs

Title III - PROJECT

Affective:

of water in his life by finding

Conscious of the importance

examples of ways in which he

uses water for:

I-C-E

- each child likes to use water. Write a story called "Water Is Important". Discuss and illustrate how
- summer with use in winter. E. Compare use of water in
- swimming pools
- ice skating rink

ωΝ

Observation

and globes Drawing

Skills Used:

To differentiate difference of land from water on maps

Outside or Community:

- water is essential. room, etc. Places where drinking fountains, janitor's kitchen, restroom, sinks follow with discussion: Tour school building and
- get our water. is needed. And also how we er writes down why pure water On return to the school, teachwater supply from their town. trip to visit the source of Take children on planned

Publications:

The First Book of Water by Joe Noring Willy, The Story of Water by Jerome Spar Rain, Rain, Rivers by Shulruitz The Magic of Water, New York, Charles Schribner's Sons, Inc. Good Rain by Goudey Not Only for Ducks, The Story of Rain, McGraw-Hill Co., N. Y. Things Around You, Steck-Vaughn Co., Science Series, ICE 500 WA2

Audio-Visual:

Pictures:
SCS or Picture File clear stream
people fishing in farm pond
water recreation.

Films:
We Explore the Stream - Coronet
Photographs from SCS or local
water control company.
Water-How Water Helps Us, BAVI
Your Friend, the Water, 6 min., EBF
Film 510 Still Waters ICE-RMC

Community: (CONTINUED)

CONTINUED OR ADDED LEARNING ACTIVITIES

AUDIO-VISUAL (Continued)

F-181-D 11 min. (IMC)
Adventures of Junior Rain Drop, BAVI,
#0022 10 min., Color.
Your Friend the Water - Clean or Dirty,
color, 6 min. (EBF) BAVI



ORIENTATION CONCEPT NO. Environmental: What Is Water Pollution? 4 - Water SUBJECT Phy, Ed., Social Studies, Science & Art TOPIC/UNIT Water Pollution Integrated with:

_						E	<u>.</u>	S	Ε.	Α	. T	itle	11	1 -	- [PR	Ol	EC	T	1-	-C-	·E	5	9-	70-	0	135	<u>5-4</u>	, , .
Skills Used: 1. Oral answering 2. Making a collection 3. Water color painting									taining a pure water supply.	ways that humans can help in main-	or demonstration which indicates	supply by preparing an experiment	pellonstrate that their help is	that thair	Affective:								trip.	tion observed on	S.		Cognitive:	BEHAVIORAL OBJECT!VES	
sediment.	Get from various sources and let them set to see the	ect water in	prevented. [pollution could have been	discuss ways that water	B. After visiting a stream,	•	a while?	hannens when it stands for		A. Experiment with water mixed property with the following: soil, property water mixed property water mixed property and the soil, and the soil property water mixed property mix	Tence		color container.	dirty water of the water	be associated with the I	Water pollution could !	rinse their brush.	ing water in which they	to paint wit	2. They should continue		water color painting	conld do	rain?	A. What happens to nice clean 1	I. Art	In-Class:	STUDENT-CENTERED LEAD
2		enough for entire class)	(voii may be able to get	Needed: Clean Water		Chicago, Illinois 60606	∑	Office of Public Affairs	Acency		C. Write to:	procured.	water samples could be	pollution. At this time,	look for signs of water	nearby stream or river and	Take a field trip to	Raindrop		B. Ask for:		Kansas City Mo. 64106	oll Walnut	Agency	A. Environmental Protection		I. Social Studies	Outside or Community:	LEARNING ACTIVITIES

(Continued)

Publications:

Pamphlet - Needed: Clean Water Wisconsin Dept. of Natural Resources, P. O. Box 450, Madison, Wisconsin 53701

Audio-Visual:

The Muddy Raindrops - SVE 430-6 \$5.50)
Water Pollution 614.7 filmstrips:
Green Bay Public Library
Film:

The Stream, ICE (320) 15 min. Ecology Kit: Can I Drink the Water, 1971 - Urban Systems, Inc.

Community:

CONTINUED OR ADDED LEARNING ACTIVITIES

CLASSROOM (Continued)

- II. Science
 D. Display jars of polluted water and one jar of clean water. Discuss which children would like to drink and how water gets polluted.
- E. How do families pollute water and how can we reduce pollution?

harsh detergents chemicals (Drano) grease (fats) dyes sewage

III. Physical Education

A. UNCLE SAM. Game

Divide the play area by 2 goals. Children are divided into polluters. One child is selected as Uncle Sam. He stands in the middle. Children call, "Uncle Sam, Uncle Sam, we cross your polluted dam"? Uncle Sam replies, "yes, you may if you are a coke bottle." They get a free run across. Those not mentioned remain on the line until Uncle Sam calls, "Go". They must cross the opposite end without being caught. If caught he goes to sideline; after 3 turns Uncle Sam chooses someone who is not caught to take his place. (Boys pick girls and reverse). When new "It" is chosen, all those caught return to gar?.

After children have played the game they may be able to choose more names of polluters and may wish to wear a label of a common polluter. Suggested list of polluters: paper, cans, cars, trucks, planes, factories, homes, garbage, and rubbish.

E. S. E. A. Title III - PROJECT I-C-E 59-70-0135-4											
Skills Used: 1. Listing 2. Story-telling 3. Writing	Affective: Show awareness of the need for pure water for plant and animal life by giving water to plants and animals in the classroom. Defend the need for pure water for plants and animals with examples.	Cognitive: List things that would be impossible without water.	CONCEPT NO. 4 - Water ORIENTATION How Much Water Do BEHAVIORAL OBJECTIVES								
	B. To see if water is assential, the children will not use any water for a given amount of time. Children will list all things that were impossible without water. Children will tell story about: 1. how they felt when they couldn't use water 2. why he needs water C. What would the ocean bed look like without water? Students should draw their ideas would it be cracked? Would there be any plants or animals? How would these look?	In-Class: A. Show pictures of places where there isn't water (desert tundras). Make bulletin beard of above pictures.	We Need? TOPIC/UNIT Wa								
31		Outside or Community:	Language Arts and Social Studies Water Depletion Depletion Depletion								

Environmental:

Integrated with:

Community:	Audio—Visual:	Publications:	SUGGESTED RESOURCES	
			CONTINUED OR ADDED LEARNING ACTIVITIES	



	E. S. E. A. Title III - PROJECT I-C-E 59-7	001354				
Skills Used:	a. takes up space b. colorless c. supports life Affective: Show an appreciation of clean air in everyday living by mak- ing posters that tell people about the need for clean air.		BEHAVIORAL OBJECTIVES	ORIENTATION Why Do We Need Air?	CONCEPT NO. 5 - Air	Environmental:
plants.	es it feel diffrand winter? at's in the air ount of discuss nd on previous ildren. This wiew of science Experiment: se and closes macher counts to lls how he feel y of air. Or eild to hold his ng as he can. Child feels he his ribs and est expands when ext expands when ext expands when tracts when explace jar over alls. Mural: "We N		STUDENT-CENTERED LEA	TOPIC/UNIT	SUBJECT Langua	Integrated with:
	A. Invite a physical education teacher to exercise with children and emphasize the importance of a good air supply. B. Physical exercises: walking, hopping, skipping, running, galloping, tiptoeing, sliding, etc. Faster exercises use more energy and child breathes faster.	Outside or Community: I. Physical Education	LEARNING ACTIVITIES	Need for Air	Language Arts, Phy. Education & Science	

1. Draw

(Continued)

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Publications:

Audio-Visual:

6290 Air Around Us, color, 12 min., John Colburn, BAVI Filmstrips:
Ocean of Air We Live In True Book of Your Body and You

Community:

Physical Education Teacher

CONTINUED OR ADDED LEARNING ACTIVITIES

CLASSROOM (Continued)

- II. Language Arts and Art
- A. Read and illustrate.
 Look around: A kite is flying,
 On the line the clothes are drying.
 We can't see air, but we feel it blow,
 We must breathe air to live and grow.



	E. S. E. A. Title	e III — PRC	JECT I-C-E 59-70-0135	-4		
Skills Used: l. Experiment and think.		Affective: Make suggestions as to how he can contribute to cleaner air.	Through experiments, the child will demonstrate that air normally contains some impurities and moisture.	BEHAVIORAL OBJECTIVES	ORIENTATION What Is Air Pollution?	
Make a two-section chart: Pleasant odors Unpleasant odors	D. Find pictures from magazines, of things that produce odors: matches, bathroom spray, car and I truck exhaust, flowers, barn-yard manure, cooking foods like sauerkraut, gasoline, charcoal with a grill, bubble baths.	(smoke, chalk dust, fumes) C. Bring in a strong smelling plant and discuss natural air pollutants.	Ince To show that air an, dust the top inno in morning. its top. Check tence at end of da netc. Hold metal spoon iles. Observe ca	STUDENT-CENTERED LEAF	TOPIC/UNIT	egrated w
35	Environmental Protection Agency Office of Public Affairs 1 North Wacker Drive Chicago, Illinois 60606 Ask for: Needed: Clean Air	free surgical masks for child- ren to use for 1/2 day to dramatize living in polluted air. D. Write to:	I. Social Studies A. Environment Walk: See Worksheet on next page. B. Cover a picture frame or cardboard frame with cheese cloth. Hang it in a tree and observe the things that catch onto it. C. Contact local hospital for	LEARNING ACTIVITIES Outside or Community:	Air Pollution	Ctudios Coionno

CONTINUED OR ADDED LEARNING ACTIVITIES

SUGGESTED RESOURCES

Publications:

Books:

People and Their Environment Teachers' Curriculum Guide to Conservation Education, Grades 1-3 Let's Find Out What Is in the Air read to class.

New York, New York 10028 Audubon Society 1130 Fifth Avenue A Place to Live, National

Audio-Visual:

Films: Air Is All Around Us

Air and What It Does

The Pollution Problem

Teaching Pictures Written by Dr. Rillo ICE

Environmental Activity Cards, Kit 40,

Community:

Local hospital



•	Air Pollution: 1. Stand outside your school. Look all around. Check all of the places you can see that air pollution is coming from:	!
	factoriesbuses	
	airplanes	
	carsfires	
2.	Describe the sky. Is it clean?yesno	
	Is it hazy?yesno	
	Is it darker in some parts than others?yesno	
3.	. Can you smell the air?yesno	
4.	. Do your eyes tear or smart?yesno	
	If possible, watch a bus leave a bus stop. Can you see the exhaust? no Can you smell the exhaust? yes no	
5.	. Try to collect some pollutants.	
	a. Wipe a car with a tissue. Paste a piece of the tissue below.	
	b. Wipe a window ledge with a tissue. Paste a piece of the tissu	ue below



	c. Go to a tree near a but a piece of tissue belo		rith a tissue. Paste
	d. Go to a tree as far a traffic. Wipe a leaf		ns stops and heavy a piece of tissue below.
6.	Sandpaper a small section building. Is there a difference in		outside of the school
7.			t?whitegray
•			vesterdaya few days
II.		acant lot. Check the tart soon. Some will la	
	GROUP 1		GROUP 2
	Things that will make soil soon:		Things that will not make soil soon.
		newspapers cans glass soda can tabs foil candy wrappers cigarettes	



Environmental:

Integrated with:

Big bus at the bus stop.
Ready to go again.
Big noise.
Big cloud of

caron gulp
cough strangle
spector wheeze
shudder katchoo
single was subjected to the strangle
shudder strangle was to so the strangle strangle to the strangle shudder to the

CONCEPT NO.

SUBJECT

Music, Physical Education and Art

Integrated with:

Environmental:





Community:	Audio-Visual:	SUGGESTED RESOURCES Publications:
		CONTINUED OR ADDED LEARNING ACTIVITIES



Environmental:

Integrated with:

•					E	. S.	Е	. <i>F</i>	۱. ۱	Title	e l	11	_	PR	OJ	EC	T	<u> -</u>	<u>c-</u>	E	59	9—:	70-	-0 <u>′</u>	135	54 	<u> </u>			-	
4. Analysis	 Cause-effect Discussion 		Skills Used:	*	anir	c. Not playing with baby	b. Not destroying nests or	plants.	•	field trip:	nlants or animals while on a	protect animal and pictroving	Value the need to preserve and	-				Δ.		e plant	Give one evample of a plant or	-	of a living thing to adapt to	_	Give an example of a plant	Cognitive:	BEHAVIORAL OBJECTIVES		ORIENTATION How Do Animals Choose	concept No. 6 - Resources	
3. Same as (1) but with	as (1) es.	the time or part of the time.	(D	ruits growing	book 1	others grow? Why?		ables, fruits,	Show pictures of m				in Wisconsin?	in Africa?	2. Why are there no polar bears	in Wisconsin?	1. Why are there no elephants	d.		and animals Tall Why mlant	Dood stories a	survival needs and adaptation.	ome extinct? Re	A. Ask:	I. Language Arts	1:1-Class:	STUDENT-CENTERED LEA	·	an Area? TOPIC/UNIT	SUBJECT Science	
								-				_		~ 		-				i cellorin	which show swamps, drain-	neighborhood areas	A. Visit school yard or		I. Social Studies	Outside or Community:	LEARNING ACTIVITIES		Animal Adaption	Science, Social Studies and Language Arts	•

Publications:

Rabbit Hill by Robert Lawson
Listen, Rabbit by Fisher
A Small Lab by Keith
You and the World Around You by
Selsam
A Crack in the Pavement by
Ruth Howell

Audio-Visual:

Our Wonderful Woodlands FS ST Filmstrip and cassette and comic booklet Why Plants Grow Where They Do, Coronet, 11 min., BAVI Filmstrip: Animals of the Forest Series, McGraw-Hill, ICE FS St8 (5 filmstrips)

Community:

*

CONTINUED OR ADDED LEARNING ACTIVITIES

CLASSROOM (Continued)

II. Science

- A. Mural: Fall make in the fall season, winter in winter, etc. Put in general characteristics. Link up seasons with animal life how seasons affect animal life (bird migration, hibernation, shedding of hair, building homes, storing of food).
- B. Compare weather in different areas of the U. S. (newspaper, radio, TV) Booklet: Animals. Group animals in Jungle, Cold Land, Desert, Temperate-label each.
- C. Make a terrarium to show plants that are native to the area. Add a plant (as cactus) that is not native. Observe results: discuss results as related to geographic and climatic conditions.
- D. Set up an aquarium to demonstrate which animals live best in/near water (frog, turtle, goldfish).



		Integrated with:	
		SUBJECT Socia	Social Studies
	ORIENTATION - How Has Our Use of Re	Resources Changed? TOPIC/UNIT Char	Changes in Use of Resources
	REHAVIORAL OBJECTIVES	STUDENT-CENTERED LEAF	LEARNING ACTIVITIES
5-4	Cognitive:		
	Construct or illustrate a village	I. Social Studies	I. Social Studies
	go including the	Ž	A. Invite old residents to
		(People o	give short talk or to
_	animal skins, etc.	and built	stions ai
		Ħ	the "old days".
	Eyplain how our living habits	changed us and our land.	
_	ve changed in	B. Compare free time activi-	
	of centuries.	ties of long ago to free time	
		activities today.	talk about how trees are
			used.
Ī		l resource	
	Affective:	of early s	
_	1	•	
	=	2. Lumber industry	
_		3. Fur trade	
	identityin	iscuss the	
	on a trip or from pictures.	resources	
<u>A.</u>		a fas shortage	
		ing in antiques	
		4	
T		ollipare now antique all	
,,	Skills Used:	tivity and now modern anni-	
	Marker of mirror	ות מולים מולים	

Maker'a mural

Discussion Cause-effect thinking

ances use our supply of natural resources; eg. hand mixer vs. electric mixer.

CONTINUED OR ADDED LEARNING ACTIVITIES

Publications:

Audio-Visual:

"Boomsville" ICE (400)
Man and His Environment
ICE Simulation Game #4

Community:

State Historical Society for information on local areas.



	Environmental:	Integrated with:	
	CONCEPT NO. 6 - Resources	SUBJECT Art	
	ORIENTATION Can We Make a Design	n Using Nature? TOPIC/UNIT Leaf	of Texture Rubbings
ļ <u> </u>	BEHAVIORAL OBJECTIVES	STUDENT-CENTERED LEAF	LEARNING ACTIVITIES
5-4	- 1	In-Class:	Outside or Community:
<u>-013</u>	ways in which nature	Art A Discuss where leaf designs !	I. Art A. Gather leaves outside.
<u>-70</u>	served as an inspiration for man's artifacts, in realistic, decora-	e seen other than in	
59	stra	Wallpaper	ty of crayor
-E		3. Ceramic designs	bings from nature. Us-
_C		B. Process:	suggested shapes (e.g.
۱ ۲		Wedge clay	tree texture, a tree
EC		2. ROLL OUT 1/4 TO 3/8" 1	cross-natch texture body of a fish, rough stipple
RO.	Attaching	leaf	re, a snail,
- F		Trim away	hackground niece of namer
III <i>–</i>	Demonstrate appreciation of de- sign in nature by choosing a de-	5. Bend edges and stem if	ש
tle	from nature when asked t	6. Pierce hole through stem	Develop a design consist-
. Ti	make a design. Examples: Ledi or cobweb.	to hand leaf	
E. /		Let dry	
S . 1		9. Add glaze, fire again	
E.			<pre>(cross-hatching, stippling,</pre>
	Skills Used:		<pre>variations and combina- tions.)</pre>
	 Properties of clay Basic hand methods of working with clay. 		
			AQ

Publications:

A Ceramic Leaf, Today's Art, School Ed., Vol. 17 #12
Clay Is Fur, R. G. Yoder, School Arts
Ecological Ceramics, C. Heiple, Ecological Ceramics, 69:29-31
Arts and Activities 69:29-31
March '71
Ceramics for Beginners, Arts and Activities, June '67
Clay in the Curriculum, Arts and Activities, March '70
Sand Casting for 6-Year-Olds, Arts and Activities, Feb. '72

CONTINUED OR ADDED LEARNING ACTIVITIES

PUBLICATIONS: (Continued)

Ecological Ceramics, Arts and Activities, March '71 Clay Mushrooms, Arts and Activitic, March '71

Community:



	E. S. E. A.	Title III - PR	OJECT I-C-E 5	9-70-0135-	-4
Skills Used: 1. Running 2. Tagging 3. Dodging 4. Fair play		Affective: Show concern about the loss of forests as a natural resource by participating in a discussion in which the loss of forests is the topic.		Cognitive: Describe three effects of our vanishing forests.	BEHAVIORAL OBJECTIVES
			plight of the animal in the vanishing forests. The discussion could also talk about other effects on our forest; as a needed resource for wood products, farm land, expansion of cities, expansion of leisure time facilities, etc.	ye Arts scussion about pic est fires. Let th	STUDENT-CENTERED
squirrel is without a tree. 2. The "It" person is the fox and chases the squirrel. The squirrel reaches safety when he takes a tree and the other squirrel must run. If he is caught,	l. Players in groups of three with hands clasped together, forming a tree. One squirrel is placed in each tree. One odd	II. Physical Education A. Game illustrates the plight of the animal searching for a home. Squirrels and Trees	House.) B. Collect pictures showing a contrast between a beautiful forest and one burned down. Trees Animals, etc.	I. Social Studies A. Have a forest ranger speak to the class. (Contact County Court	LEARNING ACTIVITIES

SUGGESTED RESOURCES CONTINUED OR ADDED LEARNING ACTIVITIES

Publications:

Smokey the Bear Storybook, I-C-E -

II. Physical Education

OUTSIDE ACTIVITIES (Continued)

- A. 2. fox and becomes the catcher. When a new squirrel enters a tree, rotate with a part of the tree; therefore, letting everyone have a chance to run.

Audio-Visual:

4635 Our Natural Resources, 11 min., color, Dowling, BAVI \$3.75

Community:



ORIENTATION

Iransportation

CONCEPT NO.

7 - Land Use

Environmental:

given situation and give reasons tion is better than others in a Liermine which form of transportafor the selection.

I-C-E

Affective:

PROJECT

he is on a trip. and how he can use them by identification of types and uses while ferent types of transportation Demonstrate awareness of the dif-

Skills Used:

S.

A.

Title

- Listing
- **Discussions**
- Community studies
- Comparisons

Integrated with:

SUBJECT Art, and Social Studies

TOPIC/UNIT Effect of Transportation

Art

In-Class:

on maps, films, or out-side on field trips. of highway patterns seen Create a simple collage onto paper or tagboard in design representative by gluing yarn or string

Social Studies

Display pictures of transportation modes:

Ex.: horse & wagon Model T

Pirate ship Ocean cruiser New car

ological order. set of pictures in chron-Children should put each

- with their leisure time. Ask hobbies. what their mom and dad do for Children tell what they do
- walking, stagecoach, etc.) going on a trip if they were C. Write a class story about horseback, horse and buggy, (Covered wagons,

STUDENT-CENTERED LEARNING ACTIVITIES Outside or Community:

- Social Studies A. Take a trip to the country. Why do people live there? How is the land used?
- highways, lawn, gardens, trees, parks, etc.) work, closer neighbors)? How town or city. Why do people live there? (Nearness to B. Take a trip to the nearest is the land used? (Homes, factories, stores, sidewalks,
- Could you travel there a faster way? If you took your bicycle, how long would it take? many minutes did the walk take? to your friend's house. How Count the number of steps
- sary? back yards. Why are parks neces-Notice residential area and facilities for young and old. D. Visit city park to see
- way, preferably one with turnoff, and observe patterns. Have class bring in highway maps interchanges or cloverleaf. Field trip to area with high-

Publications:

Audio-Visual:

20 min. BAVI America, the Beautiful, color, United World the World, B&W, 20 min., BAVI Children at Work and Play Around Lana, color, 16 min., BAVI
Churchill Transportation: Footpath to Air

Community:

CONTINUED OR ADDED LEARNING ACTIVITIES

CLASSROOM (Continued)

II. Social Studies

- Would it take longer to travel? How would you take care of the horses?
- D. Talk about resort towns such as Door County has. Why do people like to vacation there? (It is away from the city, to do leisure time activities—boating, picnics photography, swimming, water skiing, hiking, fishing). spring? What activities take place during winter, fall and
- audio-visual equipment, furniture). Take tour of school Compare schools of today and long ago. (Long ago--all eight grades, within walking distance of home, furniture, etc. Now--bus transportation, one grade per room, building and audio-visual department:
- What brought about the change in travel?
- Desire to explore new lands Desire to move supplies further, faster.
- Inventions that brought about machines and vehicles to propel man faster and further.

economy resulted from the development of transportation? veloped, and as they were developed and used, what effect did result on our environment? What effect on the As machines were developed, did fuels need to be de-

	CONCEPT NO. 7 - Land Use ORIENTATION Land Use BEHAVIORAL OBJECTIVES	SUBJECT Language Arts, Social Studies TOPIC/UNIT Homes STUDENT-CENTERED LEARNING ACTIVITIES	e Arts, Homes
1	BEHAVIORAL OBJECTIVES	1 1	LEARNING ACTIVITIES
-0135-4	Cognitive: Compare a home then and now in terms of:	I. Social Studies A. Show pictures and items of	Outside or Community: I. Social Studies
59-70-	a. conveniences containedb. style of homec. materials used	es long ago. Discidifferent parts of ils can draw a pic	?
<u>-E</u>	 Oraw a picture showing the two	an old house.	B. Visit a model
DJECT I—C-	eris:	B. Pupils can bring pictures of their homes and discuss the things that we have now which were not in the old homes.	C. Invite a senior citizen of the community to tell about homes when he was a child, and to tell of his childhood
	Affective: Debate the pro point of view that modern inventions create more leisure time for families which in turn create environmental problems.	C. Compare the two types of homes, especially the many conveniences that help give more leisure time. Let pupils bring out reasons for changes in home. Discuss the yards around homes too.	D. Field trip to see what things can be included in a model neighborhood. Perhaps continued trips to aid "what if" solution.
E. S. E. /		<pre>D. Make a bulletin board com- paring the two homes then and now. Pupils can draw them or bring in examples.</pre>	
	Skills Used:	(Continued)	
	 Discussion Comparing Brawing Building a bulletin board 		4.00 cm am am

Publications:

Audio-Visual:

Homes Around the World, United -The Treehouse, Brown Co. Library World Film

Community:

Museum or historical home Senior citizen of community

CONTINUED OR ADDED LEARNING ACTIVITIES

CLASSROOM (Continued)

II. Art

The class can create a miniature model neighborhood media: clay, animals, top cars, boats, box houses, pipe cleaner fences. on a table top or in a sandbox using a variety of

A "what if" possibility is given and the students are required to make the necessary changes in their model neighborhood.

Example:

- What if a proposed highway is planned to go right through the neighborhood? What if there was a sudden influx of
- people into the area?



Language Arts

	LEA
Outsic	LEARNING A
Outside or Community	ACTIVITIES
mmunity	ES
:	

- Language Arts mobiles. thusiast to talk about the A. Invite a snowmobile enrecreational value of snow-
- and rights of others). mobile cwners in town and officer to talk about the out. law and safety regulations responsibilities of snow-Invite a law enforcement (also enumerate on
- vacy. privacy and how smowmobilers to talk about his right to have often violated this pri-Invite a property owner (possible solutions).

abusive manner:

breaking laws and in-

vading privacy

wild life areas

invading the scarcity of

Skills Used:

Discussion Dramatization

Ŋ

destruction of property

disregarding safety

noise and air pollutants (frightening animals)

regulations

and littering.

(Continued)

Drawing

SUGGESTED RESOURCES CONTINUED OR ADDED LEARNING ACTIVITIES

Publications:

Wis. Conservation Bulletion ICE Nov.-Dec., 1972 p. 3
Mission
"Better Snowmobile Driving" p. 8 "Off the Beaten Track" Jan.-Feb., 1972 p. 6
"Snowmobile Trails for You"

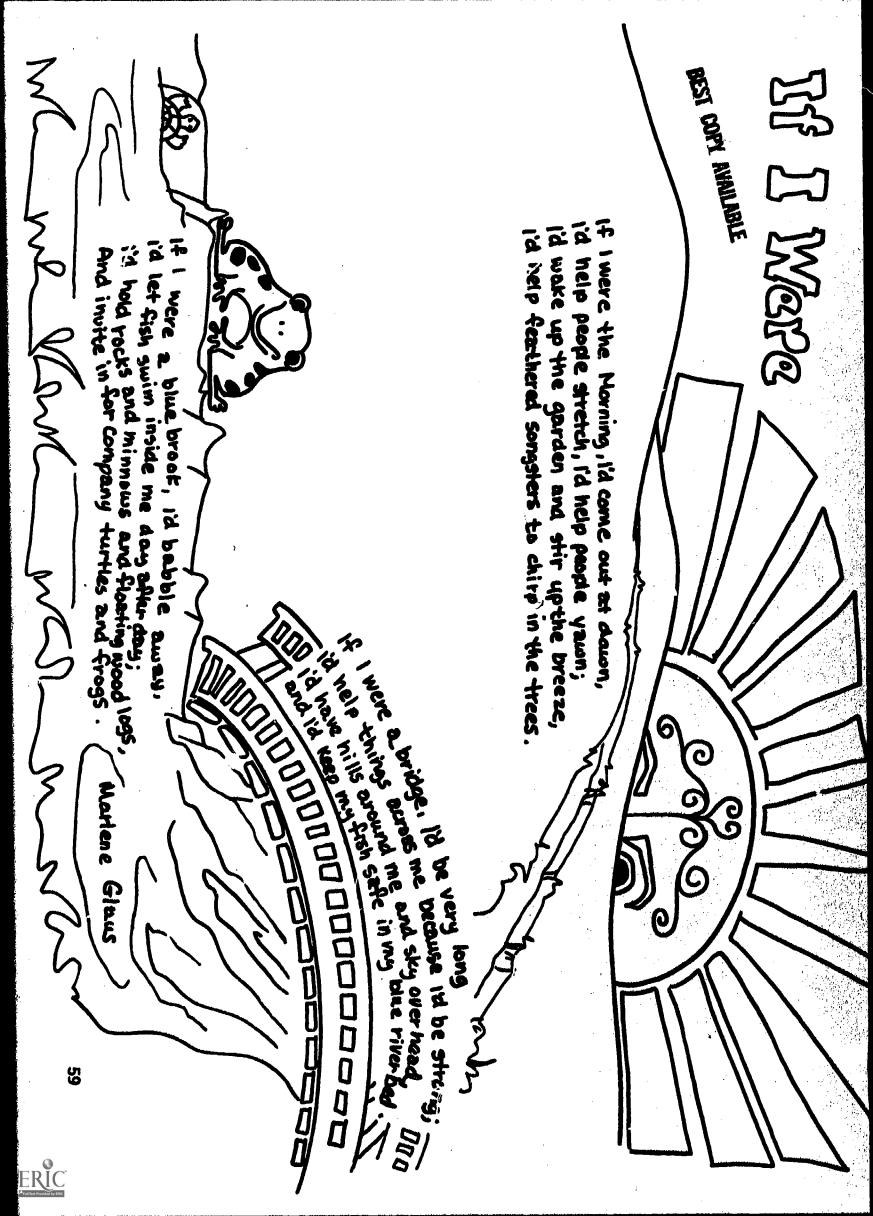
CLASSROOM (continued)

- D. Dramatize how student would feel if he were an animal in the woods and were suddenly invaded by a noisy fearful machine. This dramatization could be extended to farm animals.
- E. Dramatize how student could use a snowmobile in helping someone else.

Audio-Visual:

Community:





Integrated with:

SUBJECT

Language Arts, Science and Soc. Studies

ORIENTATION

BEHAVIORAL OBJECTIVES

Cognitive:

7 - Land Use

CONCEPT NO.

Land-Use - Camping

TOPIC/UNIT Camping

S	STUDENT-CENTERED LEARNING ACTIVITI	RNING ACTIVITIES
	In-Class:	Outside or Community:
he rec en t	I Social Studies	I. Social Studies

Social Studies

bulletin board:

Show the use of park and/or

A. Through the use of a

camping areas: ing before and after pictures of has had on forest areas by draw-(last 20 years') camping trend [llustrate the effect the recent Amount

59-70-

Care

PROJECT 1-

Affective:

·C-E

- to camping. (Start with a how it looks today in regard trees with camp sites.) forest and gradually replace forest area years ago, and
- ing area you have seen. Draw a picture of a camp-
- is used during the 4 seasons. Discuss how a camp ground
- economic conditions, populahave affected the camp ground. 4. Discuss how transportation, tion growth and leisure time
- ago. a campground. Compare woods as to an essential use years tional or aesthetic purposes use today as one for recrea-Discuss the use of wood in

S.

ωΝ

Discussion Drawing Skills Used:

Comparing

E.

Title III -

of our land is being taken over

for recreational purposes.

Defend the use even though much

sibility). by excessive use of the land by campers (litter, destruction of plan: & animal life, fire pos-Discuss the problem created

- winter, spring and summer.
 (When is the camp ground used
 most least?) Social Studies changes take place in autumn, your area. Discuss what A. Visit a camp ground in
- ests and streams. B. Conservation worker to discampers and others using forcuse responsibilities of
- of persons using parks and to discuss his work and numbers responsibilities. Park attendant or manager

Community:	Audio-Visual:	Publications:	SUGGESTED RESOURCES	
			CONTINUED OR ADDED LEARNING ACTIVITIES	
			7	Š



Environmental:	Integrated with:	
CONCEPT NO. 8 - Values and Attitudes	SUBJECT	anguage Arts
Land	TOPIC/UNIT	er and Weeds
BEHAVIORAL OBJECTIVES	STUDENT-CENTERED LEAF	LEARNING ACTIVITIES
Cognitive:	In-Class:	Outside or Community:
Ol Differentiate between things	I. Language Arts	
that are wants	A. Write or discuss: `"What	
person.	n I do to enjoy the	
	doors more often?" What can	
	my parents do to enjoy the out-	
	of-doors more often?	
	B. Make a list of 10 things	
	Jike. Make another li	
	the list of 10 you like choose I	
Affective:	those that are most important	
rtance	cussion about differing values.	
dividual		
	nts us	
a. pro viewpoint	really need?	
b. negative viewpoint	D. Bulletin Board: Needing	
	and Wanting. Say to class, I	
Skills Used:	them?"	
	What things do you think we	
	use that cause pollution, but aren't really necessary? Cut	
	put on bulletin board.	

(Continued)

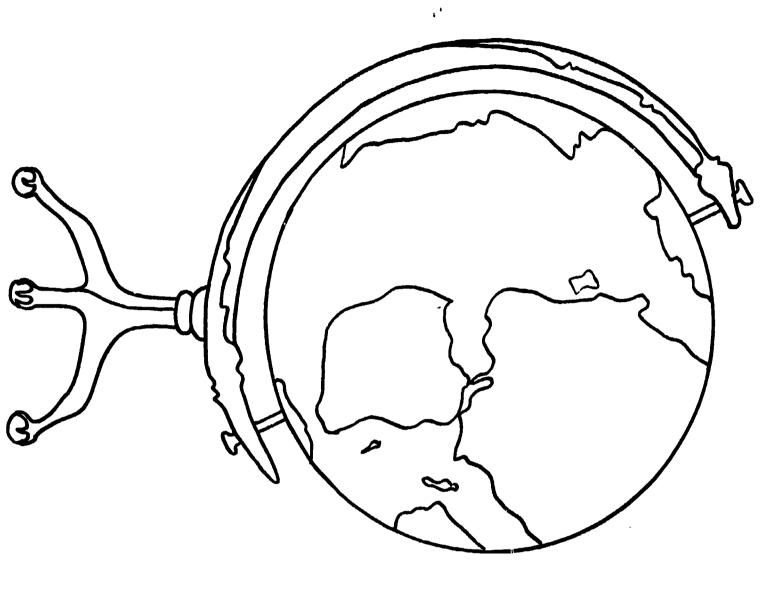
Fun With the Environment by U. S. Environmental Protection Agency, Washington, D. C. Publications: SUGGESTED RESOURCES **Publications:** E. Ask the class members to determine what goods and services are produced by their parents. Then write, "Why Do You Think We Buy These Things if We Don't Really Need Them"? Also put on bulletin board. CLASSROOM (Continued) CONTINUED OR ADDED LEARNING ACTIVITIES

Community:

Audio-Visual:



BEST COPY AMILABLE



The World

All the things you know,
All the things you do,
Are part of the world,
And the world is you.

S. - PROJECT I-C-E 59-70-0135 E. Title III Α. neighborhood by: neighborhood by: Participate in beautifying his Affective: Cognitive:

Reducing litter

Improving looks

Demonstrate to the class a procedure for improving his home BEHAVIORAL OBJECTIVES In-Class: STUDENT-CENTERED LEARNING ACTIVITIES I. Social Studies Outside or Community:

CONCEPT NO.

9 - Management

SUBJECT

Social Studies

Integrated with:

TOPIC/UNIT

Land Beautification

Environmental:

ORIENTATION

Yard & Neighborhood Beautification.

- milk carton or cans or pots, Social Studies house or yard. A. Plant flower seeds in a to be taken home to beautify
- showing well-kept ones. neighborhoods as compared to tures of orderly yards and littered ones. Make posters Make a scrapbook of pic-
- clean. of keeping our surroundings to demonstrate the importance Make up and present a play
- a yard. that can be used to beautify Shew pictures of plants

picking up_litter cutting weeds

planting flowers

well-kept yard or neighborhood Make posters to illustrate

Skills Used:

Planting seeds

Construction Making scrapbook

Planning a trip Dramatization

- maintained. talk to owner about how it is A. Visit a well-kept yard and
- B. Have person who works for city sanitation department talk to class about his job.
- in school yard to beautify it. Secure and plant a tree
- picnic area. clean, by cleaning up their can help keep environment demonstrate to class how they Trip to picnic area to
- about it. Make plans to do something observe the amount of litter to be found in a given area. Walk around the block to

SUGGESTED RESOURCES CONTINUED OR ADDED LEARNING ACTIVITIES

Publications:

Audio-Visual:

Film 310 Junk-dump ICE
Treehouse ICE
One Day at Teton Marsh ICE (200)

Community:

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Environmental:

Integrated with:

(CONTINUED)

Teacher's Curriculum Guide to Conservation Ed Discovering Your Environment Kit 16 "School Lawns" SUGGESTED RESOURCES Publications: Community: Audio-Visual: CLASSROOM (Continued) CONTINUED OR ADDED LEARNING ACTIVITIES Divide the bulletin board into three parts and label at at the top: The children are to make a collage on a bulletin board using pictures from magazines and newspapers, which they have obtained and brought to class. Land as it grew (natural) Land man changed for the good of men Land man used badly.

PROJECT A. Title # | | I-C-E 59-70-0135-4 Skills Used: Affective: Cognitive: BEHAVIORAL OBJECTIVES CONCEPT NO. ORIENTATION Environmental: sluggish, active, etc. the cause of a person feeling Suggests temperature as being adapts to differences in temone week, on paper or chalkperature in his life. Explain different ways man record of the temperature for Read a thermometer and keep a Record keeping Rejurting Reading a thermometer Discussion Writing temperature 9 - Management Temperature Contro In-Class: I. Science ? est. Children will do the air-conditioners. man control the change of coldest temperature and warmoutside for one week. temperature? Clothing, fires, reading of the thermometer. Keep records of temperature practice reading thermometer. temperature change in each. Ask question: How does Introduce seasons and the Have children bring in on how the temperature is controlled in their home. Children report to school clothing samples of how certain season. they would dress in a Bring thermometer in and During the winter? etc. What was the temperature What was the temperature Temperature last month? yesterday? last week? STUDENT-CENTERED LEARNING ACTIVITIES SUBJECT Integrated with: TOPIC/UNIT Compare Temperature Control Science **Outside or Community:**

E.

CONTINUED OR ADDED LEARNING ACTIVITIES

Publications:

Air Is All Around You New York, Crowell 1962

Audio-Visual:

Air and What It Does Encyclopaedia Britannica Films, Inc. 1150 Wilmette Avenue
Wilmette, Illinois

Community:

Heating and cooling man Businessman that deals with clothing. Could be a father, uncle, etc. Weatherman



Integrated with:

SUBJECT

Art

9 - Management

CONCEPT NO.

TOPIC/UNIT Clay

Clay Project

STUDENT-CENTERED LEARNING ACTIVITIES

Outside or Community:

ORIENTATION

Cognitive:

How Can Clay Show That We Can Manipulate Our Environment

Manipulate Our Environment

BEHAVIORAL OBJECTIVES

Describe how man is able to control his environment through the analogy to a piece of clay.

59-70-0135

Affective:

PROJECT

I-C-E

Sensitive to the need to control our environment by identifying examples of little or no control while on a field trip.

Title

Ш

Skills Used:

E. S. E.

- 1. Increasing manual dexterity
- Basic clay working techniques

In-Class:

How do you explain to a

Art
A. If the area is conducive.
have the students go outdoors and get your own clay.

B. Each student will be given a block of clay (size depends on quantity available). using one of the most manipu-

lative mediums known to art -

project? The answer:

clay.

5-8-year-old child that man can change and manipulate his

environment through an art

C. This block of clay is theirs to form whatever they wish, just as our environment is ours to form whatever we wish. If the student manipulates and changes his clay with care and thought, he will come forth with a rewarding product, if not disaster. The same thing holds true with us and our environment. (Note: when doing this project the environmental lesson must be taught or the project is

CONTINUED OR ADDED LEARNING ACTIVITIES

Publications:

"Clay Is Fun" R. A. Yoder, School Arts, p. 20-1 Oct. '71 "It Just Happened, Clay Modeling" Arts and Activities 69:22-4 Mr. '71

Audio-Visual:

"Creating With Clay", B.F.A. Available for rental from BAVI



Publications:

CONTINUED OR ADDED LEARNING ACTIVITIES

Audio-Visual:

How To Make Potato Prints, B.F.A. Available for rental from BAVI

Alphabet Observation Hike, Field Act. No. 25, ICE



PURPOSE;

To help the individual become aware of native materials found in the outdoors through direct observations.

PROCEDURE:

Divide into small groups and have each group list as many natural items they can find beginning with each letter of the alphabet.

DESCRIPTIVE WRITING

DIRECTIONS:

Find the objects listed below and then do the following things with each object:

- 1. look at the object
- 2. Feel the object
- 3. Smell the object
- 4. Listen for sounds which may come from it or are associated with it.
- 5. Taste it (if safe to do so)
 Write as many descriptive words as the basis for
 description as you can using your sensory experiences.
 Some possible examples are:
- 1. This year's deciduous leaf
- 2. This year's evergreen leaf
- 3. Last year's deciduous leaf
- 4. River water
- 5. Water from the stream
- 6. Wet soil along the river
- 7. A rock
- 8. Twig on a tree
- 9. A flower
- 10. Bark on a tree

* Northern Illinois University

WORDS INTO PICTURES

In my fifth grade class we are trying to become more exact in expressing our ideas. To help in this effort, I asked each student to write a descriptive paper on an imaginary animal. Then, without warning, I had them exchange papers. Next, I asked each child to draw a picture of the description he received.

Their enthusiasm was high, their reactions natural and critical: 'Nothing here tells me how big it's supposed to be.' 'I can't make him do anything because that was left out.'

After several attempts at this activity, the student's descriptions, and thereafter their pictures, became much more detailed.

* Shirley R. Secord, fifth grade teacher Central School, Natick, Mass.



LANGUAGE ARTS ACTIVITIES

Play "blind" and describe various outdoor situations. Write a letter home or to a friend. Take field notes. Use the camp library for research and reading. Tell some original "tall tales". Write a story or a song about the out-of-doors. Plan and prepare a tape of your outdoor experiences. Write a poem about the Mississippi. (Fox River) Take a camera hike. Keep an outdoor diary or "log". Practice careful listening. Recognize and record new "outdoor words". Write new words in snow, sand, or moist earth. Enrich word meanings. Make temporary or permanent labels for a nature trail. Use children for "living labels". Make a trail guide. Produce one-sentence descriptions. Describe a natural phenomena such as a storm. Write stories or poems about natural objects. Give news or weather reports. Compose a myth or legend about some area or object. Identify and label specimens. Keep a diary or write a story about "My Spot" (an outdoor area chosen by the student of particular interest to him) "Space Traveler" --- describe our environment from an outsider's point of view. Take some good "nature notes". Describe various outdoor odors using proper terminology. Learn to spell the names of trees, animals, etc. Talk with "oldtimers" to learn the history of trees. Start a tree calendar and diary. Make a list of "outdoor" sounds and weave them into a story. List several adjectives such as soft, smooth, twisted, and hunt for nature objects to fit these words. Describe nature sounds in writing. Compose outdoor rope-skipping rhymes. Write a story about "stars". Compose a "ballad". Prepure a radio or television program. (make-believe) Use charades to portray new outdoor vocabulary words. Interview various adults about the out-of-doors game warden. Dramatize some "problems" of the pioneers or Indians.



	1	
•		

Integrated with:

9 - Management

CONCEPT NO.

ORIENTATION

Urban Environment

SUBJECT Diorama

TOPIC/UNIT

Art

	BEHAVIORAL OBJECTIVES	STUDENT-CENTERED LEA	NTERED LEARNING ACTIVITIES
, — <u>ч</u>	Cognitive:	In-Class:	Outside or Community:
اباز	the characteristics of a	7 05+	T Ap+

59-70-0135-4

Cognitive:	In-Class:	Outside or Co
Describe the characteristics of a	I. Art	I. Art
city structure.	A. Make a city diorama.	A. Have t
	1. Cut out pictures of	note o
	ന	area a
	anything that's found in your city.	way to
	Paste a piece of card- board on the back.	
Affective:	 3. Draw blocks and streets, & manhole cover on a big piece 	
Conscious of the make-up of the city by identifying cars, people	of cardboard or the bottom of a large box.	-
of the make-up of the city.	4. Assemble your pictures and place them in the city in their appropriate places.	

E. S. E. A. Title III - PROJECT I-C-E

e the students take e of the streets and a around them on their to and from school.

Skills Used:

- Construction
 Cutting
 Pasting
- ω.>

"Community Planning Handbook" #110 ICE RMC Gi "A Place To Live" #110 A ICE RMC SUGGESTED RESOURCES **Publications:** Audio-Visual: Community: CONTINUED OR ADDED LEARNING ACTIVITIES



Environmental:

9 - Management

TOPIC/UNIT _

Low Organization Games

		Е.	S. E.	<u>A.</u>	Tit	e i	<u> -</u>	- <u>r</u>		JEC		<u>C</u>	—E		39-	-/(<u>-01</u>	35)— <u>"</u>	• 	
	Skills Used: 1. Running 2. Throwing					using litterbags.	his environment by making and	-	Affective:				Vironillent.	they can change their nome en-	will be able to list five ways	environment, 75% of the children	After playing the games and discussing how man changes his		Cognitive:	BEHAVIORAL OBJECTIVES	
(CONTINUED)	around your home? 4. Q. What ways does man change our city?	etc. 3. Q. How does your mother 3. D. Father Change the land	→ ≒	record? clothes-washed, Ironed,	things you did in the	A. Yes.	npkin	1 O Did you change the	centered, teacher-directed.	C. Discussion: Student-	ment instead of nome environ-	to fit the classroom environ-	may put words into the song		B. Mulberry Bush Record	د	A. Pick the Pumpkin Patch		In-Class:	STUDENT-CENTERED LEA	
													vironment.	relationship to room, whice,	studies unit. Ex. Students'	classroom teacher's social	I. Social Studies A. Possible correlation with		Outside or Community:	LEARNING ACTIVITIES	

Publications:

Appleton Elementary Phy. Ed. Department Primary Grades Handbook

Audio-Visual:

Mulberry Bush Victor 20806 (record)

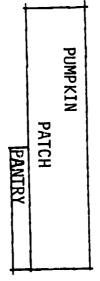
Community:

CONTINUED OR ADDED LEARNING ACTIVITIES

CLASSROOM (Continued)

PICK THE PUMPKIN PATCH

Pickers. They put on a red pinnie, take a ball, and go stand in the center of the playing area. The other children are pumpkins and scatter about the space. On the signal are hit, they go sit down in the pantry (where they will be made into pie). They are eliminated from the game. After a designated time, 3-4 min., the Pickers count the number of pumpkins they have picked (hit). They choose a pumpkin still in the patch to take their place. Those pumpkins who were eliminated may now may dodge anywhere within the designated boundaries. If they "Pick the Pumpkin Patch," the pickers chase after the pumpplaying space. Four children are selected to be the Pumpkin Equipment: 4 7" playballs or rhythm balls. pumpkins. re-enter the game. See which group of pickers can pick the most them from the game by hitting them below the head. The pumpkins kins, throwing their balls at them in an attempt to eliminate Designate the



E. SUGGESTIONS:

- 1. Make the pumpkin patch very large, so the children get a good run. This is a good game for a cooler day out of doors as most of the children are active for the greater share of the playing period.
- select those who are not chosen often by the other children. You might want the girls to choose girls to take their places and boys to choose boys. In this way, the throwers will be divided between boys and girls. When choosing children to be the first pickers, try to

Environmental:

Integrated with:

(CONTINUED)

Publications:

Curriculum for Elementary Physical Education, Nicks, Mel, Diocesan Dept. of Education, Green Bay, Wis. 1965

Audio-Visual:

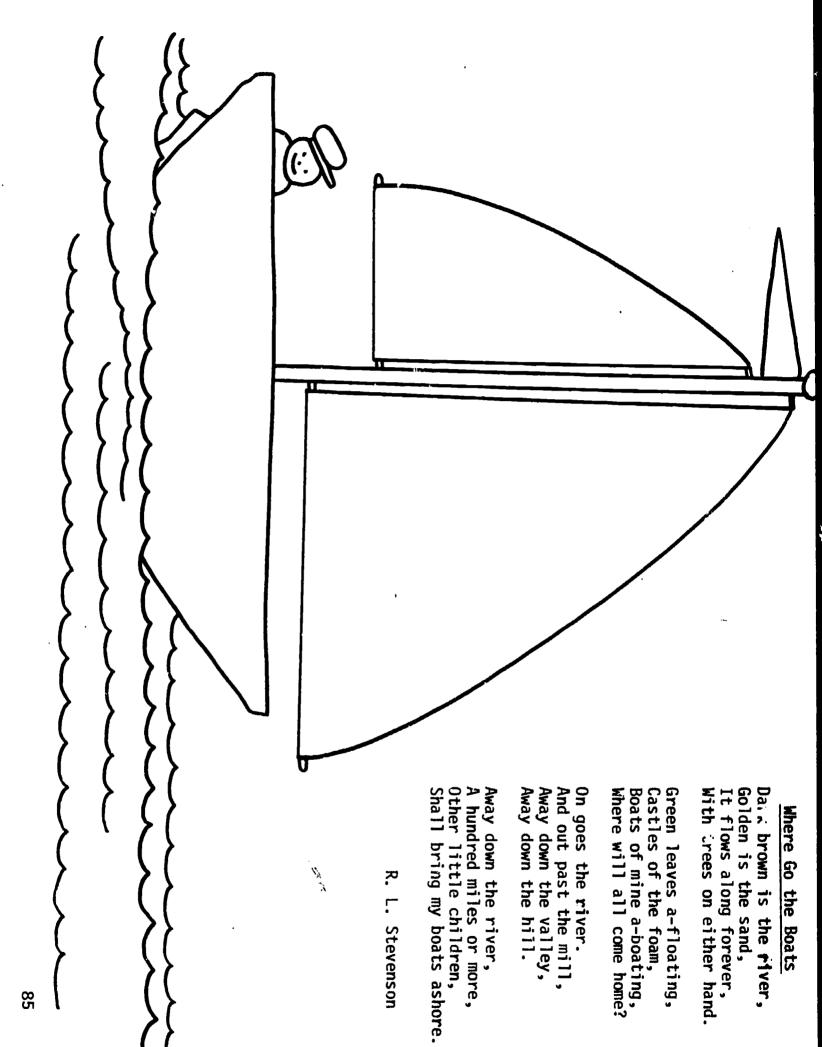
Community:

CONTINUED OR ADDED LEARNING ACTIVITIES

CLASSROOM (Continued)

- : 3. As I went walking...A pretty green fir tree I did see, Hi-ho, hi-ho, hi-ho.
- 4. As I went walking...An ugly old tree stump I did see...hi-ho, hi-ho, hi-ho.
- 5. As I went walking....Some clean sparkling water I did see...hi-ho, hi-ho, hi-ho.
- ó. As I went walking....A polluted river I did see.... hi-ho, hi-ho, hi-ho.





CONCEPT NO.

10 - Econemic Planning

Integrated with:

Social Studies and Language Arts

ORIENTATION

LAND USE

TOPIC/UNIT

STUDENT-CENTERED LEARNING ACTIVITIES

Cognitive:

BEHAVIORAL OBJECTIVES

creative dramatics. use of forest land through of careless planning in the Indicate the long term result

59-70-0135

Affective:

PROJECT

ditions to consider when man Argue that there are many conas litter or use of water instead of just one or two such tampers with the environment

A. Title III

Skills Used:

- Constructing
- Dramatization Making cartoons
- Listing
- Making a bulletin board
- Audio skills

SUBJECT

Folktale Dramatization

In-Class:

Social Studies are destroyed. a few left. This same thing happens when things of nature troyed. First admire the flowers. Then tell each child many things can soon be desbulletin board to show how to go and pick one. Soon there's "Pick a Pretty Flower'

- of big and little trees. select trees should have been size. years to grow a tree of any preserved. Now it will take uproot the trees to build several houses in their place. Use a child's toy payloader to little foresight is used, a few there are no trees. People come to live there but Houses may be shoebox homes. Diorama: Set up a forest
- gains. C. Tie in environmental loss resulting from short-term
- (Continued)

Social Studies

Outside or Community:

- used to do these jobs? why he fertilizes and sprays or farmer visit to tell how some crops. What machinery is he rotates his crops. Also, Have agriculture teacher
- way help the community? How will it change the environment? machine. struction and watch man's B. Visit highway under con-How will the high-
- and animals. less homes for people
- gains (not brushing teeth, eating candy) can result in can discuss now short-term long-term losses. School nurse or dentist (cavities).



SUGGESTED RESOURCES CONTINUED OR ADDED LEARNING ACTIVITIES

Publications

The Little House, Virginia Lee Bates, Houghton, Mifflin, 1970 Miguel's Mountain, Bill Binzen, Coward-McCann Why the Bear Lost His Beautiful Tail

Audio-Visual:

Agriculture teacher Highway construction Farmer

CLASSROOM (Continued)

- Campfires and cigarettes, (forest fires). Economic gains of industry, (pollution of air and water).
- Lack of crop rotation, (depleted soil). Economic gains in wood industry, (disappearing forests).
- Language Arts
- Read, Why the Bear Lost His Beautiful Tail to the
- Children. in a discussion, point out the fact that the bear wanted to get something quickly and did it in a foolish way suffering a loss which could not be replaced. Have the children tell what the bear could have done
- which woul lave been more sensible. (It should have been planned.)
- The children can make puppets and act out the folktale.
- <u>ω</u> Grasshopper and the Ants View filmstrip or read book on one of the following: Frederick Hare and the Tortoise Three Little Pigs
- Discuss how the short-term gains result in long-term losses.

Skills Used: Affective: BEHAVIORAL OBJECTIVES ORIENTATION community. pleasure motor vehicles in the Question the need for so many families in the classroom. pleasure motor vehicles owned by Count and graph the number of Cognitive: CONCEPT NO. Environmental: Counting Compare Graphs Discussion Quality of Life 10 - Economic Planning In-Class: Social Studies **C** D. ₽. compare to the joy gained or mechanic bring a motor of the number of vehicles Discuss pollution caused 2. How does this loss mobiles, mini bikes, ATV's by driving the vehicle? by the emission. Discuss the pollution caused placed behind the exhaust 3. Use a white cloth motor outside. 2. Have him start the driven vehicle to school. vehicle. Pollution of a motor members. owned by families of room Make a picture graph motor boats and go-carts. count the number of snowvehicles. You will survey motor by motor vehicles. pipe to see the emission. From classroom members Have an older brother What happens to the STUDENT-CENTERED LEARNING ACTIVITIES SUBJECT TOPIC/UNIT Integrated with: Social Studies Air Pollution Outside or Community:

PROJECT

I-C-E

59-70-0135

E. A.

Title

CONTINUED OR ADDED LEARNING ACTIVITIES

Publications:

Dirty Air, Minnesota Environmental Sciences Foundation, Inc. Project ICE RMC Dangerous Air - Kalaver -Project ICE RMC

Audio-Visual:

Film:

Air All Around Us McGraw-Hill Air; What It Does Encyclopaedia Britannica City Bus Driver BAVI

Community:

Industrialist or Garage Mechanic



Publications:

Geary, Instructor, p. 94 June 1971
The Diligent Destroyer (150)
Laycock, George, 1970 (LA)
"Printmaking for Primary Grades" Scott, Arts and Activities, p. 30-1, April 1972 il. Arts and Activities, R. A. Daniel 70:28-9, Oct. for Perceptual Activity: E. Hand-made Slices: Whetstone "Printing: Plant Prints" (Continued) 1971

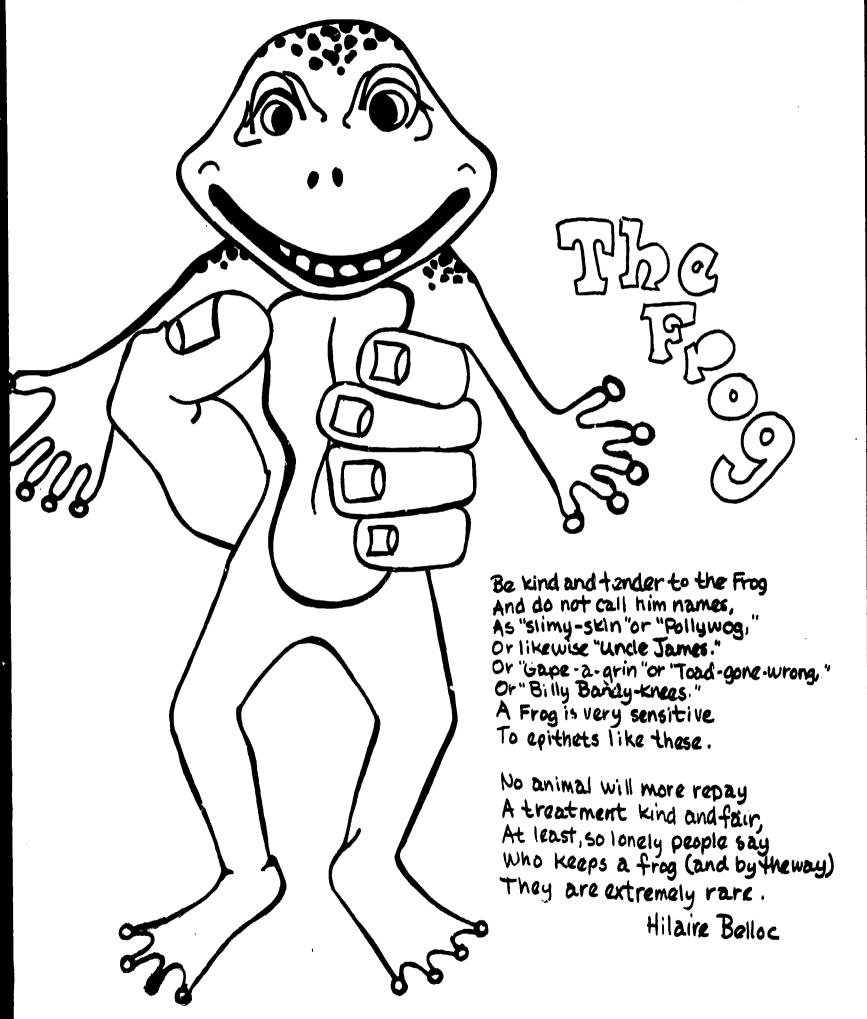
Audio-Visual:

CONTINUED OR ADDED LEARNING ACTIVITIES

PUBLICATIONS (Continued)

Creative Photography Without Film, Richard Latta, <u>Design</u>, p. 28-29, Summer 1972
"Happy Way to Printmaking; Styrofoam Experiments", E. Deutsch Arts and Activities, p. 32-33, April 1970
"Plastic Prints Are Neat!" M. Saxer, <u>Arts and Activities</u> p. 14-16, July, 1969







Integrated with:

CONCEPT NO. ORIENTATION Waste Disposal ll - Individual Acts

Environmental:

SUBJECT Art, Social Studies and Language Arts Littering

Cognitive

change by themselves.

that result in only a little

BEHAVIORAL OBJECTIVES change that occurs when large numbers of people do things Explain the extent of the total

In-Class:

STUDENT-CENTERED LEARNING ACTIVITIES

Outside or Community:

TOPIC/UNIT

A. Litterpug babbe - cachichild finds something in his unwanted item (litter) - the Go outside or remain in classchange is not too bad. desk that he no longer wants. Language Arts room. One child drops his Litterbug Game - Each

containers. ter. Next step: Clean up -put in trash can. (Encourage to design attractive litter high school ag. or art class then everyone drop their litthen have a few more go -(Encourage

⊢ ⊢ • Art Use them for pickup at school; ter" walk. When they come back, glue litter found to Children go on a "pick-up lit-"Litterbug" Bulletin Board. their family car or elsewhere. then have them use them in bags with slegans in art class. B. Make individual litter Draw outline of a huge bug. A. Litterbug Bulletin Board.

> Social Studies have been dropped by careto see the articles that less people. Yard trip for children

vironment used by the public picnic ground to arouse feel-B. Field trip to a park or ings in children about en-

period. park or picnic ground. Follow activity with discussion tion that was caused at Drawings of the devasta-

Skills Used:

E.

Title

Affective:

outside of the classroom Pick up after himself in and

- Planting
- Murals
- Drawing

(CONTINUED)

Publications:

Books.

Once There Was a Tree, Discovering Nature Series, Phyllis S. Busch, World Publishing Patterns of Nature, Jeffrey Baker, Doubleday Keep Our World Clean, song sheet available at CESA #9 Office This Land Is Your Land, song sheet

Audio-Visual:

ilms:

Garbage, CESA 9 Litterbug, color, 10 min., Avis BAVI The Litterbug, Walt Disney, 8 min.

Community:

Forest Ranger Janitor

CONTINUED OR ADDED LEARNING ACTIVITIES

CLASSROOM (Continued)

III. Social Studies

- 4. Let the child who found the most litter be "King for a Day" or "Queen for a Day".
- Tell janitor to not empty waste baskets for one week.
 This will be similar to garbage pickup once a week.
 At the end of the week, analyze the contents of the waste baskets. Was the paper really unusable and could it have been erased rather than wasting it and taking new? Separate paper for recycling.
- C. Have janiter show children what he does with the waste from the waste baskets.
- D. During a week's period, the children will make a graph and put checks behind their names as to how many bags of litter they have picked up.
- E. Talk about individual efforts toward the litter campaign. (weekly award).

CONCEPT NO.
BEHAVIORAL
Cognitive:
9–70–013 Der and
DJECT I-C-E 5
Affective: Respect propert desks c ings and
Skills 1. 2.

Integrated with:

Community:	Audio-Visual:	Publications:	SUGGESTED RESOURCES
			CONTINUED OR ADDED LEARNING ACTIVITIES



PROJECT 59-70-0135 I-C-E Title III -ORIENTATION CONCEPT NO. **Environmental:** Cognitive: BEHAVIORAL OBJECTIVES vironment. be responsible for the destruc-Affective: tion or upbuilding of an en-Explain that a single cause can Skills Used: Gividual working together to de-Accepts the responsibility of inother group activity. in the making of a mural or some velop the whole by participating Construction Group planning and cooperation. Observation Discussion <u> 11 - Individual Acts</u> Individual Alterations In-Class: ₿. ? Art campfires left unattended, cigstart the fire: matches, wildlife fleeing from their arettes. Murals: Read about "Smokey the Bear" desperate to find a new home. blackened stumps and wildlife Draw trees burning and Let children draw his picture Results of the fire: forest homes. Draw what someone did that "Wild Flowers". (Hayes Pub. Stress that wild flowers in or write a short story. Learn to recognize. not picked. Bulletin Board, the area should be enjoyed and STUDENT-CENTERED LEARNING ACTIVITIES Forest Fires. SUBJECT Integrated with: TOPIC/UNIT Art Fire Prevention **Outside or Community:** Social Studies A. Arbor Day - Have a tree about fire safety. child. seedling to plant at home. beauty. Give each child a it will add to the school's school. Choose a protecplanting ceremony at your tive, attractive area where Tree will grow up with the Have a forest ranger speak 99

CONTINUED OR ADDED LEARNING ACTIVITIES

Publications:

Smokey +' a Bear, Story and song

Audio-Visual:

Forests, color, 10 min., Gateway, BAVI
Your Friend the Forest, Save It or Destroy It, color, 6 min. EBF BAVI Kit: Forest Fire Prevention and Conservation Kit
Smokey the Bear, 5 min., USDA



Environmental:	Integrated with:
CONCEPT NO. 11 - Individual Acts	Cts SUBJECT Music, Physical Education and Soc. Studies
ORIENTATION Cleanup	TOPIC/UNIT Rhythmical Activities
BEHAVIORAL OBJECTIVES	STUDENT-CENTERED LEARNING ACTIVITIES
Cognitive:	In-Class: Outside or Community:
0 List at least five ways to beautify the land around	I. Music & Physical Education A. To tune of the Mulberry
them.	Bush, Chorus Here we go a ful tree,
	a beautiful tree, i B. Clean up an entire block.
	ere we go l
DJECT	So early in the morning. This is the way we:
Affective:	
Brag about do	2. rake the lawn (3x) 3. cut the grass (3x) 4. water the plants (3x)
litter-free, and ample of what he	
E. S. E. A	Discussion: Cleaning up can be fun as leading well as profitable.
Skills Used:	
<pre>1. Rhythmic movements corresponding to the listed activities.</pre>	

SUGGESTED RESOURCES CONTINUED OR ADDED LEARNING ACTIVITIES

Publications:

Nicks, Mel, Curriculum for Elementary Physical Education, Diocesan Dept. of Education Green Bay, Wis. 1965

Audio-Visual:



ORIENTATION

Solid Waste Disposal

11 - Individual Acts

CONCEPT NO.

Integrated with:

TOPIC/UNIT Recycling SUBJECT Math. Soc. Studies and Language Arts

	E. S. E.	A. Titie III – PRO	JECT I-C-E	59-70-0135-	4
Skills Used: 1. Discussion 2. Counting 3. Comparing 4. Survey taking 5. Cause and effect thinking		Affective: Demonstrate that his help is needed to cut down the pile-up of refuse by picking up litter along his path to school.	<i>3</i>	Cognitive: Measure the bottles and cans from his family and compare this garbage to the amount for the total class.	BEHAVIORAL OBJECTIVES
dividual cans. 2. Line up the entire group's cans and bottles and measure. 3. Compare. C. Project this into city garbage collection. Problems?	How long i	II. Math A. How much do these cans weigh? 1. Measure one person's cans and bottles. 2. Measure the entire group's cans and bottles.	day. 1. These are brought to school. 2. Count the number of bottles, count the number of ber of cans.	In-Class: I. Social Studies A. Have the students select a day on which they will ask their mothers to save the cans and bottles she empties that	STUDENT-CENTERED LEA
103			B. Law enforcement officer to discuss the laws against lit- tering refuse disposal.	I. Language Arts A. City worker to discuss his job with Sanitation Department.	

CONTINUED OR ADDED LEARNING ACTIVITIES

Publications:

Trash Is Taking Over,
Minnesota Environmental Sciences
Foundacion at ICE RMC

Audio-Visual:

Community:

Sanitary Engineer to discuss refuse picked up a few years ago as opposed to now. Stress quantity and how disposal of refuse has changed.



	E. S. E. A. Tit	le III – PROJ	ECT I-C-E 59-70-0135	5 –4	1			
Skills Used: 1. Following step by step directions. 2. Instrument construction		Affective: Assist in finding ways for re-using materials such as are found in a normal home.	Construct a playable instrument from materials which have been reclaimed.	- 1	BEHAVIORAL OBJECTIVES	ORIENTATION Recycling	CONCEPT NO. 11 - Individual Acts	Environmental:
their own music for their in- struments.	ment. E. Discuss how other materials can be recycled in other areas. F. Students could make up	How would nstructing nts? Students	sic Teacher, stude tion of what kir l instruments ca om discarded mat Drums from cof Rattles from g Chimes from b	In-Class:	STUDENT-CENTERED LEA	TOPIC/UNIT F	SUBJECT	Integrated with:
				Outside or Community:	LEARNING ACTIVITIES	Recycling	Music	

CONTINUED OR ADDED LEARNING ACTIVITIES

Publications:

Making and Playing Classroom
Instruments, Marcelle Vernazza
\$1.50
Fearon Publishers, Inc.
2165 Park Boulevard
Palo Alto, Calif. 94306
Music Inst. for Children to
Make, John Hawkinson

Audio-Visual:

Ecology Folk Songs, Grades 4-H.S. Album K 9000 - 1 - 12" 33 1/3 rpm Record, guide (cassette, \$6.95) Honor Your Partner Albums, Rope Skipping, Ball Bouncing Vocational Activities, Inc. Freeport, New York



integrated with:

SUBJECT Physical Education

ORIENTATION Safety and Conservation

11 - Individual Acts

TOPIC/UNIT Dramatic Play

(Continued)

Publications:

Through Physical Education, Burgess Pub. Co., 1962, p. 105 Webelos Scout Book, Boy Scouts of America Dauer, Victor, Fitness for Elementary School Children

Audio-Visual:

Community:

CONTINUED OR ADDED LEARNING ACTIVITIES

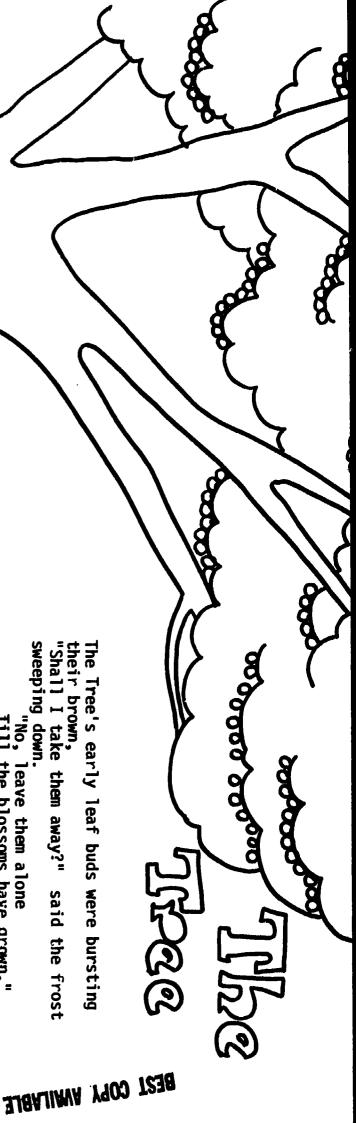
CLASSROOM (Continued)

- Make biazes so we can find our way back.
- Pick a good spot for the tent and put the tent up. Let's go find some firewood for a campfire.

- 10. Clear out a spot for the fire, carry stones to put around it, light the fire, cook your supper on it. Eat your supper, be careful how you dispose of wastes, so wild animals don't come too close.

 Watch where you walk, be careful not to step on
- small plants.





"Shall I take them away?" said the frost their brown, The Tree's early leaf buds were bursting

sweeping down.
"No, leave them alone
Till the blossoms have grown,"
Prayed the Tree, while he trembled from rootlet to crown.

birds sing: The tree bore his blossoms and all the

"Shall I take them away?" said the Wind as he swung.

"No, leave them alone Till the berries have grown," Said the Tree, while his leaflets quivering hung.

glow Said the girl, "May I gather the berries The tree bore its fruit in mid-summer

Take them, all are for thee," Said the Tree while he bent down his laden bows low. Yes, all you can see

B. Bjornson

PROJECT I-C 59-70-0135 -E Affective: spected. his rights will also be rerespect for the rights of others, Demonstrate that in showing sidewalk. If everyone walks Language Arts a path will be worn. through dramatization: Discuss reasons for a Show how noise in the noisy feet interruptions

- on grass, grass will die, and
- classroom disrupts the class
- loud music or talking
- about people picking flowers see in cages? How do you feel do you feel about animals you stepping on an ant hill? in the park? How do you feel about
- page to show the kind of world you would like to live in. Color picture on next

E.

Skills Used:

Observation Appreciation Listening

A. Title III -

are trying to study, not inter-rupting those trying to study

unless very important, etc.

rights of others in the class-Demonstrate his regard to the

room by being quiet while others

- and metal). A junk yard is A. Take a walk to look for "eyesores". Look at junk Social Studies use trees as a visual shield displeasing to the eye, thus from view by a tall fence; not really pollution but is eye. What can be done? yard so displeasing to the the owner should screen it (Dismantle and recycle glass
- mater, nobody can swim or
 fish or boat in it. Beauty is destroyed). discolored water, plants and waste products into water. polluting air and dumping fish die, algae on top of it difficult to breathe, Results: dirty air making Show factory smoke stacks
- area, home school, etc., walks. Conduct litterbug cleanup look displeasing to the eye. Litterbugging makes picnic

CONTINUED OR ADDED LEARNING ACTIVITIES

Publications:

Audio-Visual:

No Time To Waste, Kit 10, p. 9

Our Environment 2 Kit 30

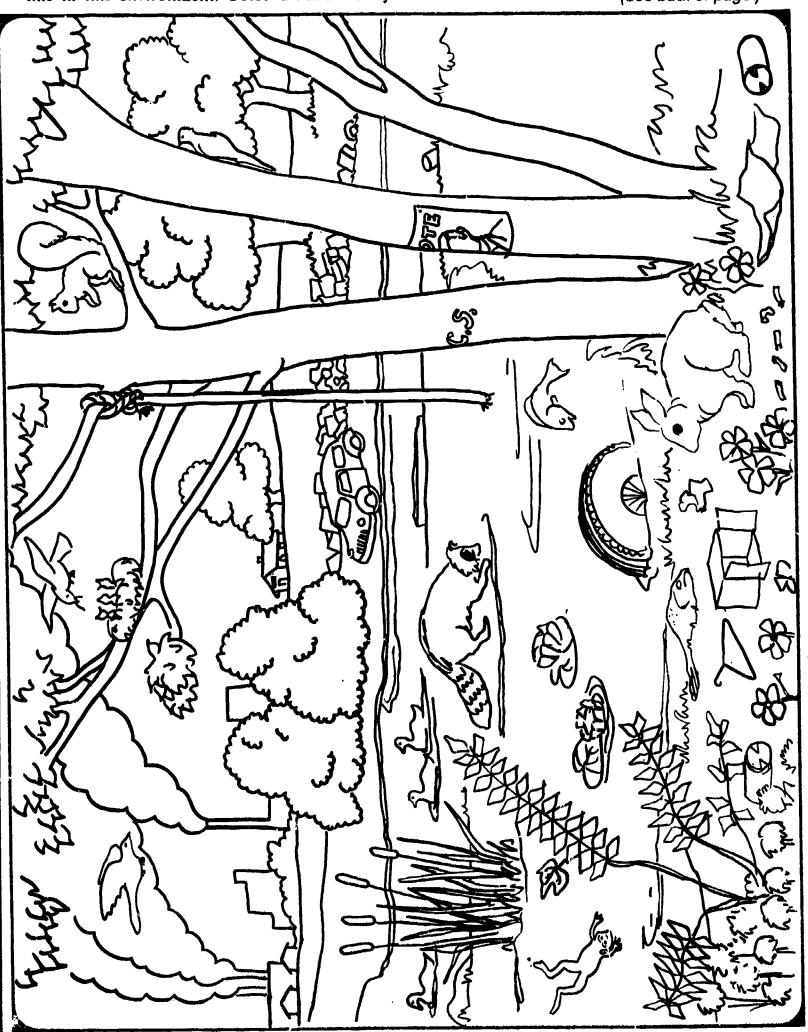
(filmstrips and records ICE)

1. Sound and Noise
2. Quiet, Please ICE

- 3. Noise and You
 Our Environment 3 Kit 31
 (filmstrips and records ICE)
 1. It's Really Up to Us
 2. What is the Problem?



COLOR—CLEAN this ENVIRONMENT and give it to your teacher. Color IN what you like in this environment. Color OVER what you don't like. (See back of page.)



students should care	Cognitive: Demonstrate either how books should or should not be take care of. List property in the room and outside which	ORIENTATION Public Property BEHAVIORAL OBJECTIVES	Environmental:
285 2	In-Class: I. Social Studies A. Show filmst Take Care of Bo B. Have childr the correct or to handle books	STUDENT-CENTERED I	Integrated with:
portance of taking care d of school property.	to ta	Care of Books LEARNING ACTIVITIES	



SUGGESTED RESOURCES	
CONTINUED OR ADDED LEARNING ACTIVITIES	

Publications:

Audio-Visual:

How to Take Care of Books,

Filmstrip
Paper Makes Wis. Great,

3319 FS St 4 ICE
Paper and Pulp Making, BAVI \$2.25
Paper, BAVI \$2.00

